

Un-gyo Jung  
JAVA EXECUTION DEVICE AND.....  
Darryl Mexic  
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FIG. 1 (PRIOR ART)

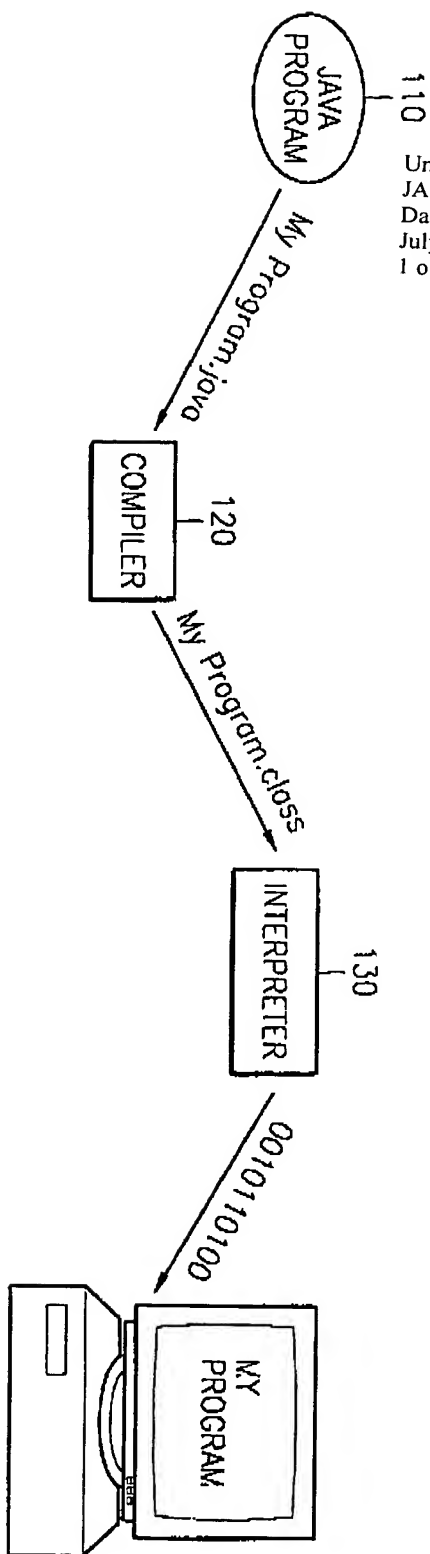


FIG. 2 (PRIOR ART)

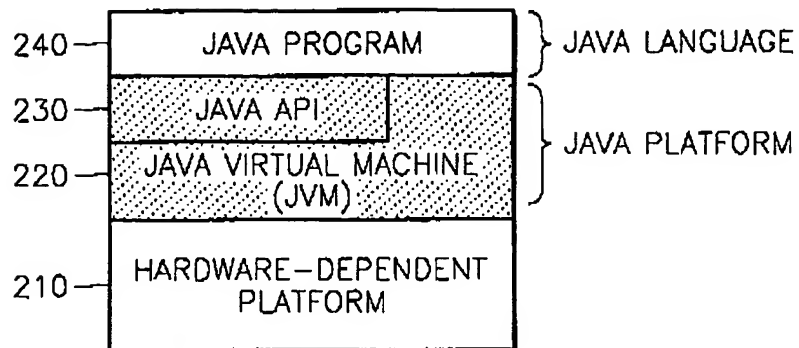


FIG. 3 (PRIOR ART)

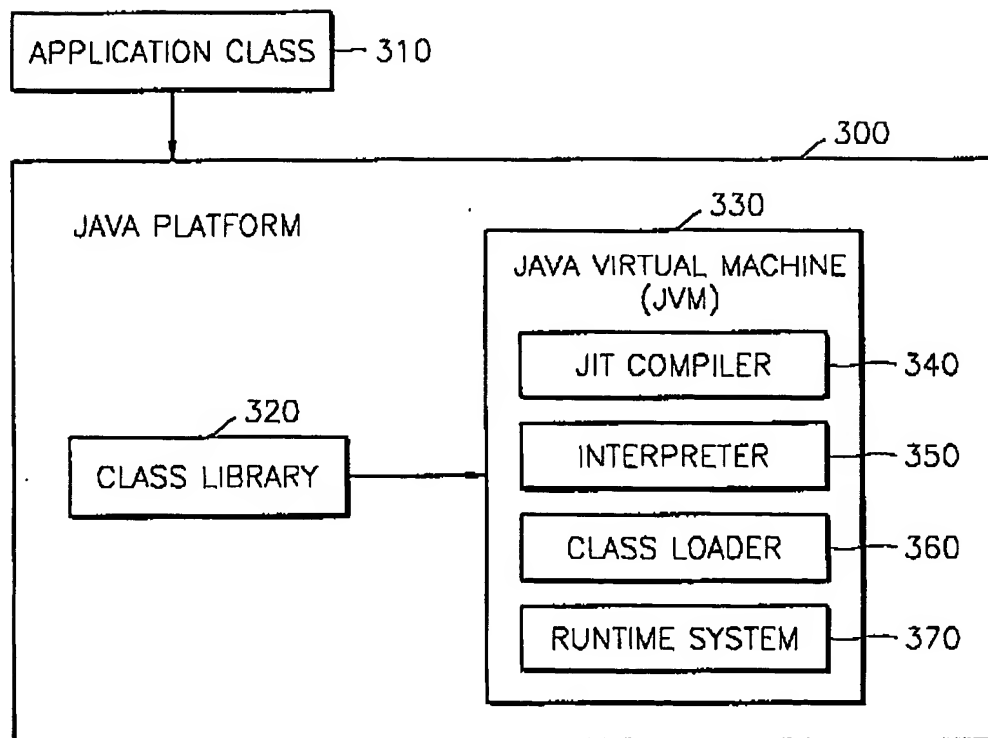


FIG. 4 (PRIOR ART)

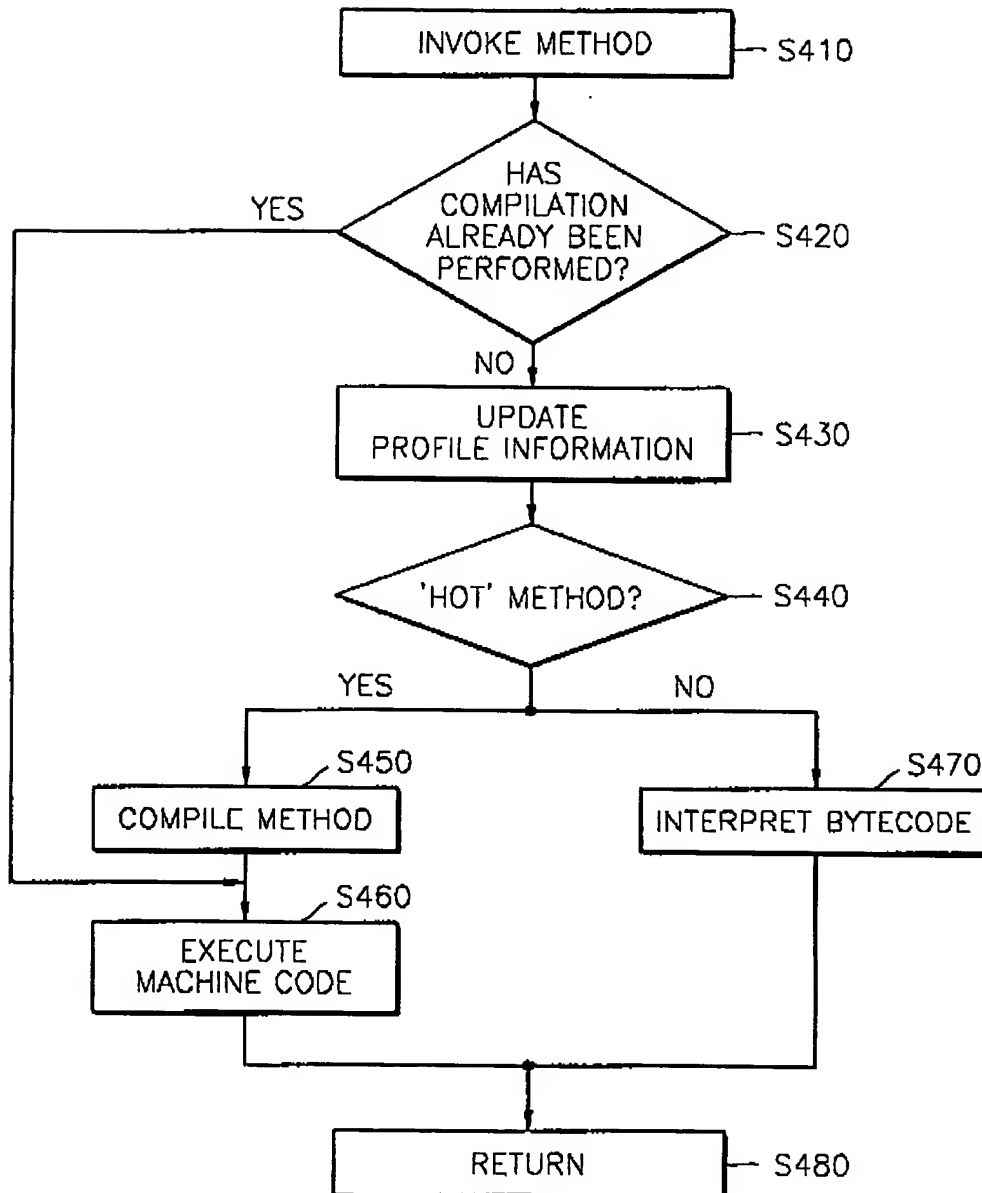


FIG. 5 (PRIOR ART)

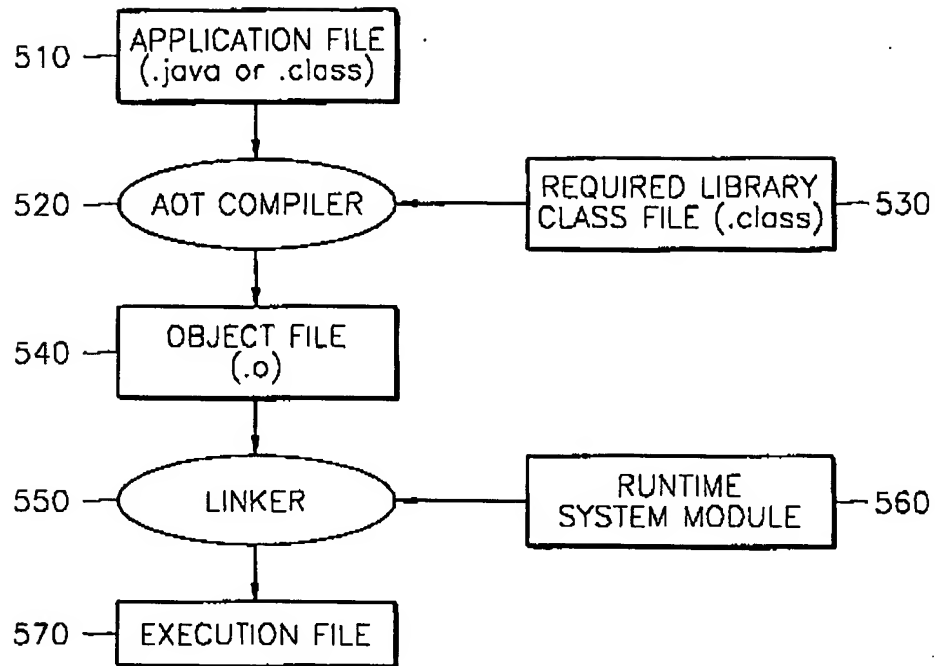


FIG. 6A

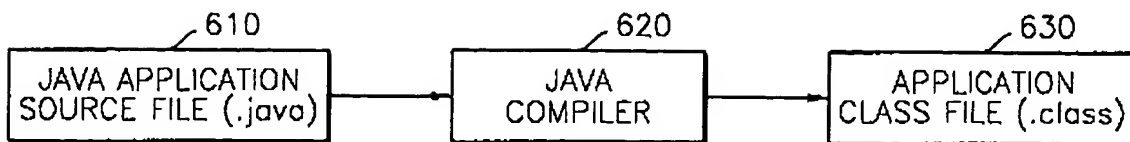


FIG. 6B

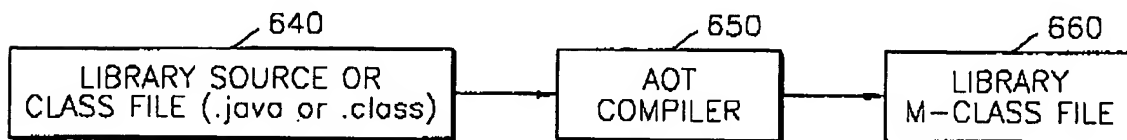


FIG. 6C

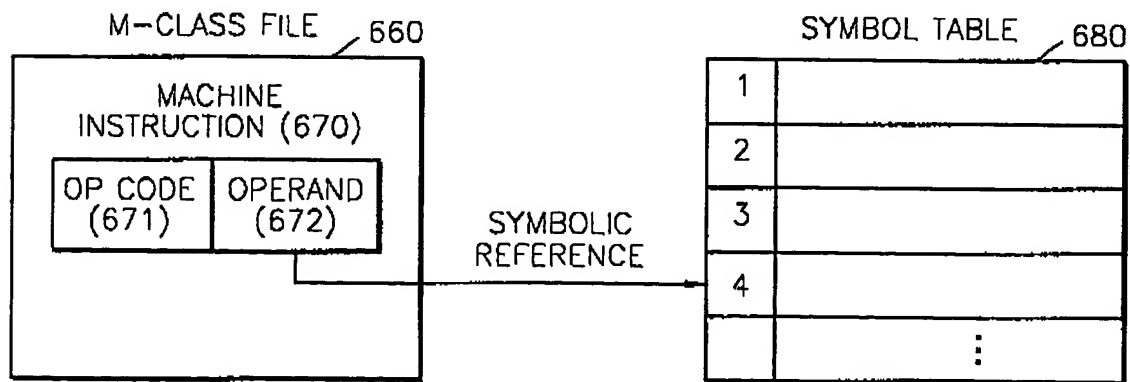


FIG. 7

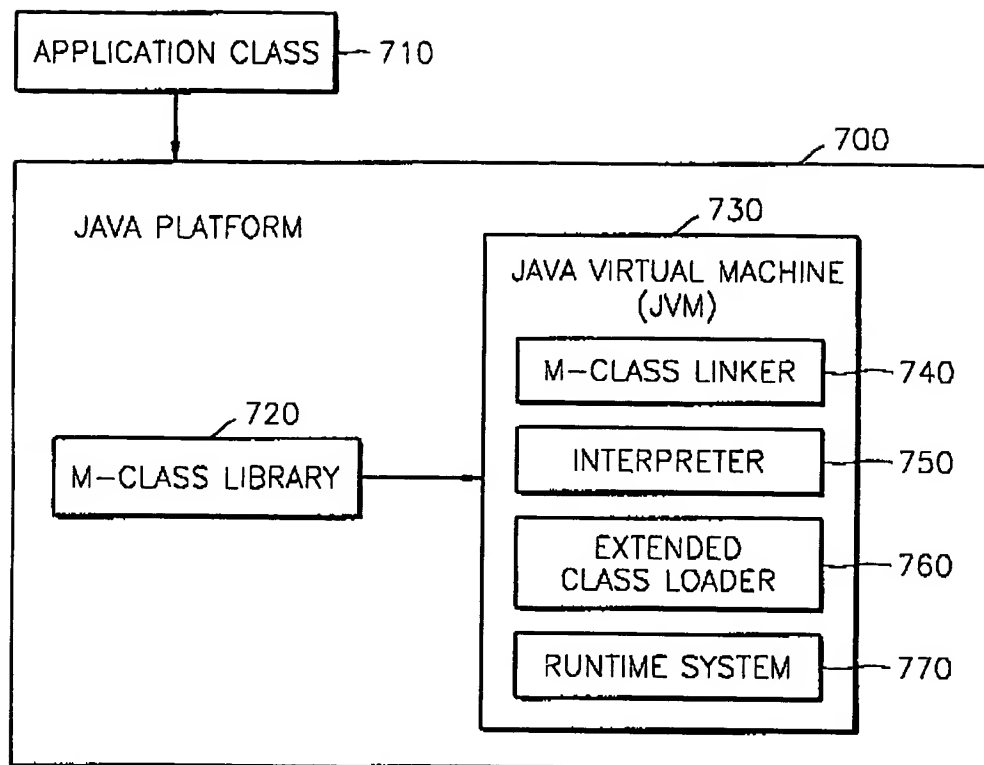


FIG. 8

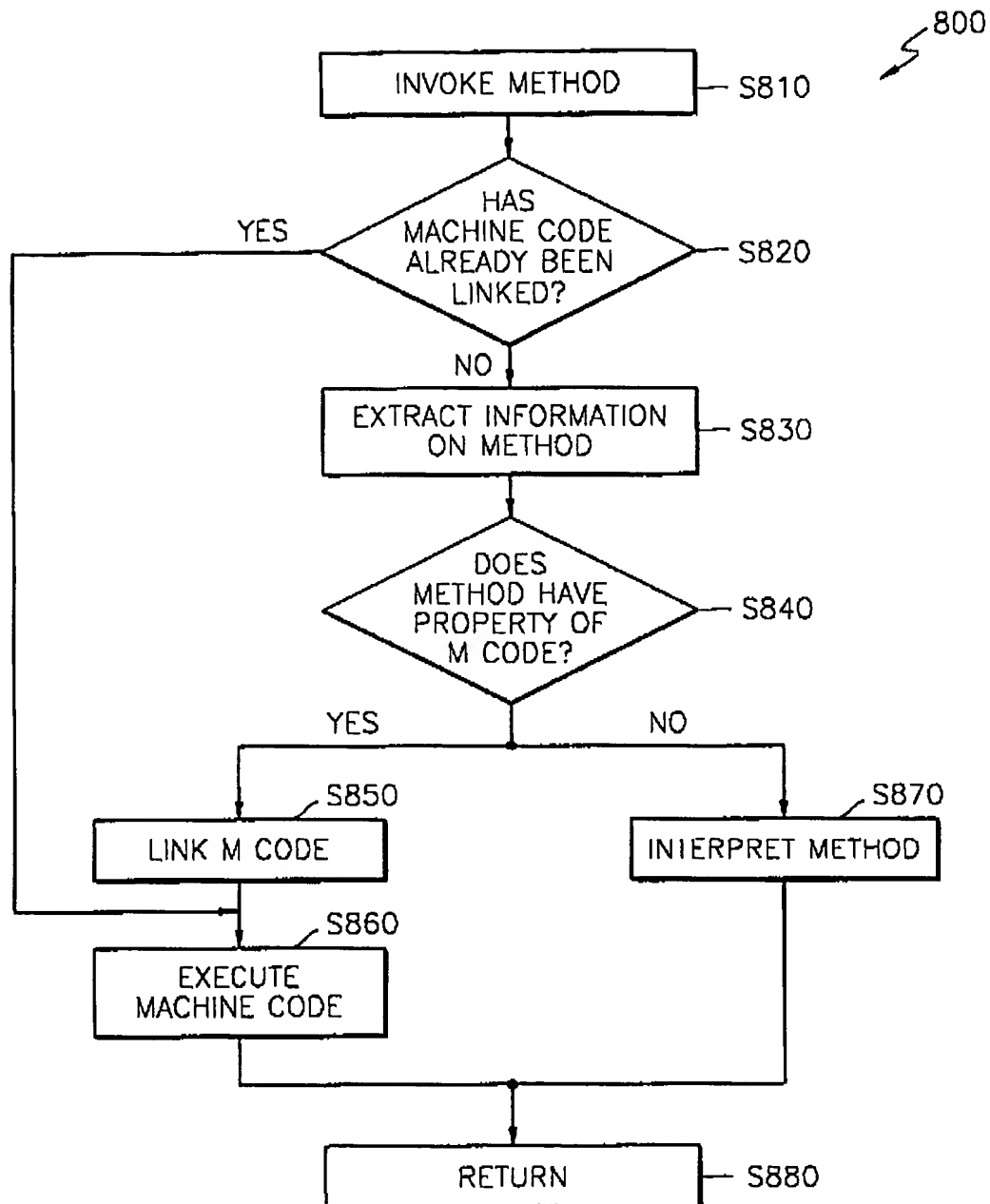


FIG. 9

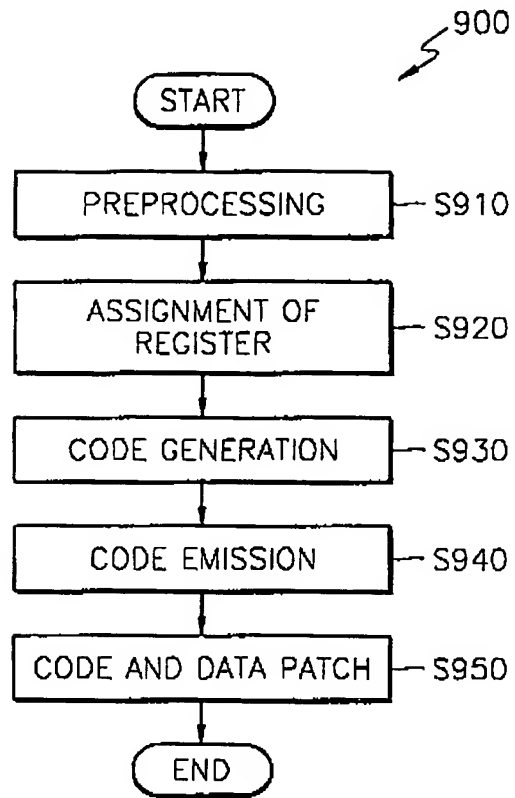




FIG. 10

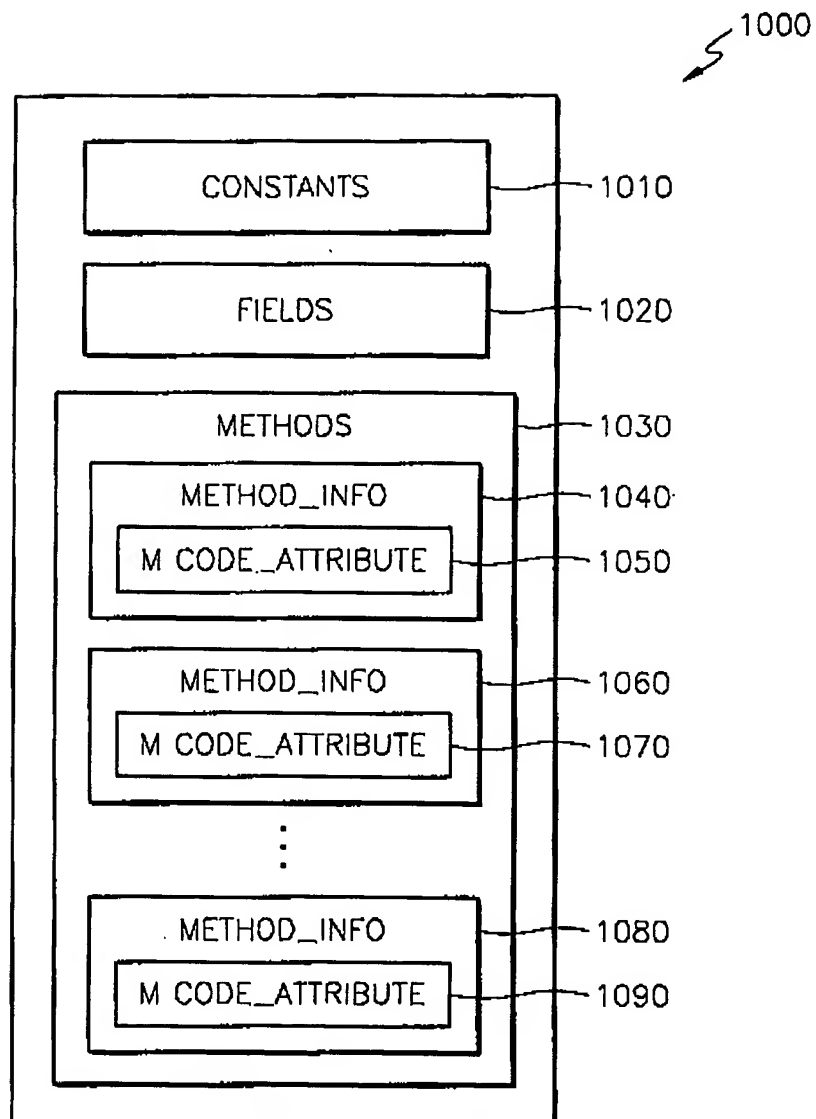


FIG. 11

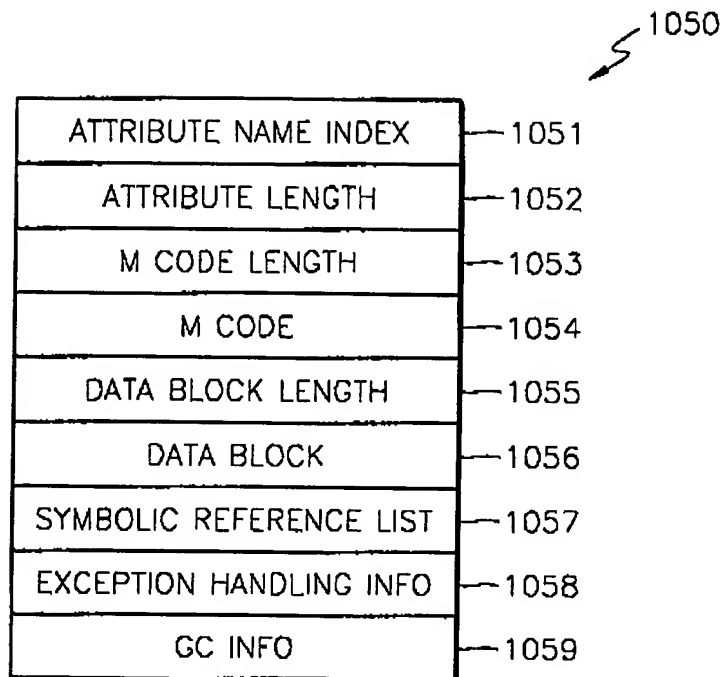


FIG. 12A

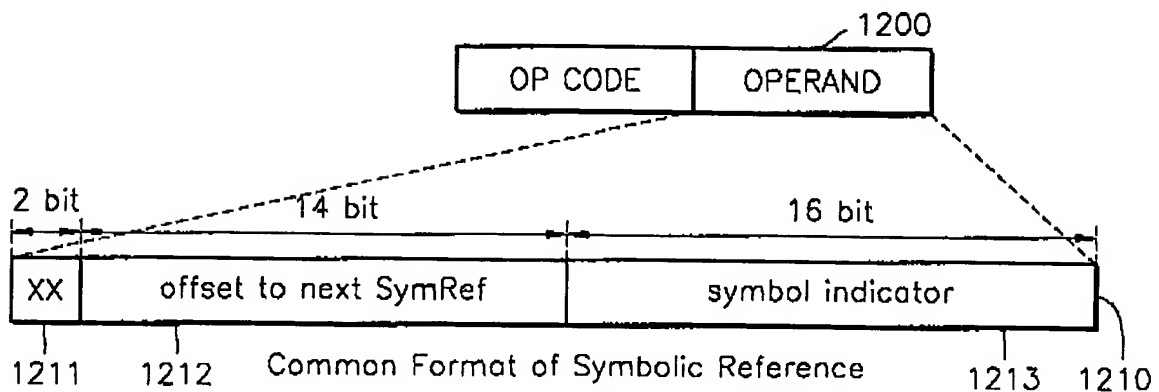


FIG. 12B

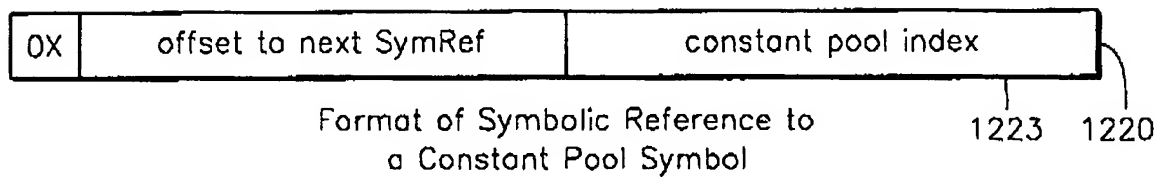


FIG. 12C

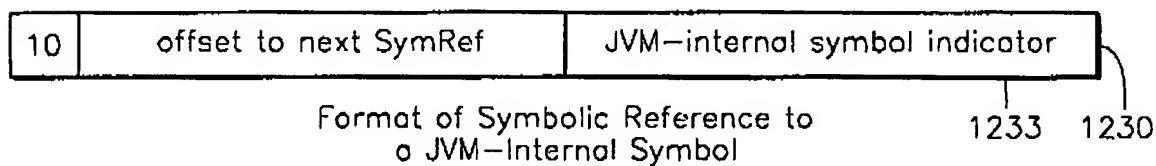


FIG. 12D

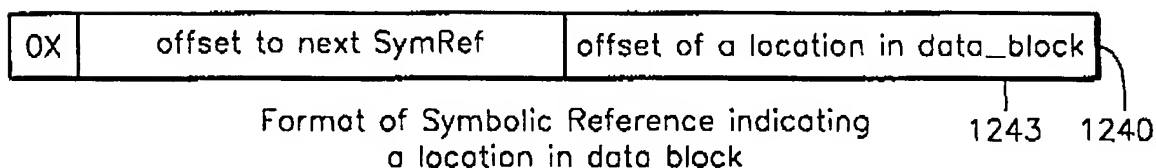


FIG. 13

type	flag (OX)	Meaning
class	00	address of this class
	01	address of the array class having elements of this class type
field	00	address of the location storing the value of this field
	01	(address of the location storing the value of this field) + 4
method	00	address of this method (treat this method as a static method)
	01	address of this method (treat this method as a special method)

FIG. 14

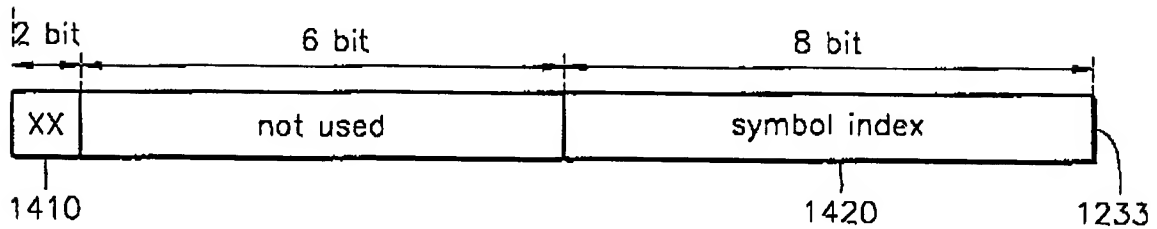


FIG. 15

Java Platform	Total Time	FLT	FLT/TT (%)	JIT Time	m-Linking Time	JT/TT (%)	MLT/TT (%)	JIT Count	m-Linking Count	JIT Time per method	m-Linking Time per method
ORP	4,515,625	3,000,000	66%	703,125	0	16%	0.5%	144	0	4,883	0
m-ORP	3,500,000	2,687,500	76%	2,512	187,500	0.7%	5%	1	143	2,512	1,311